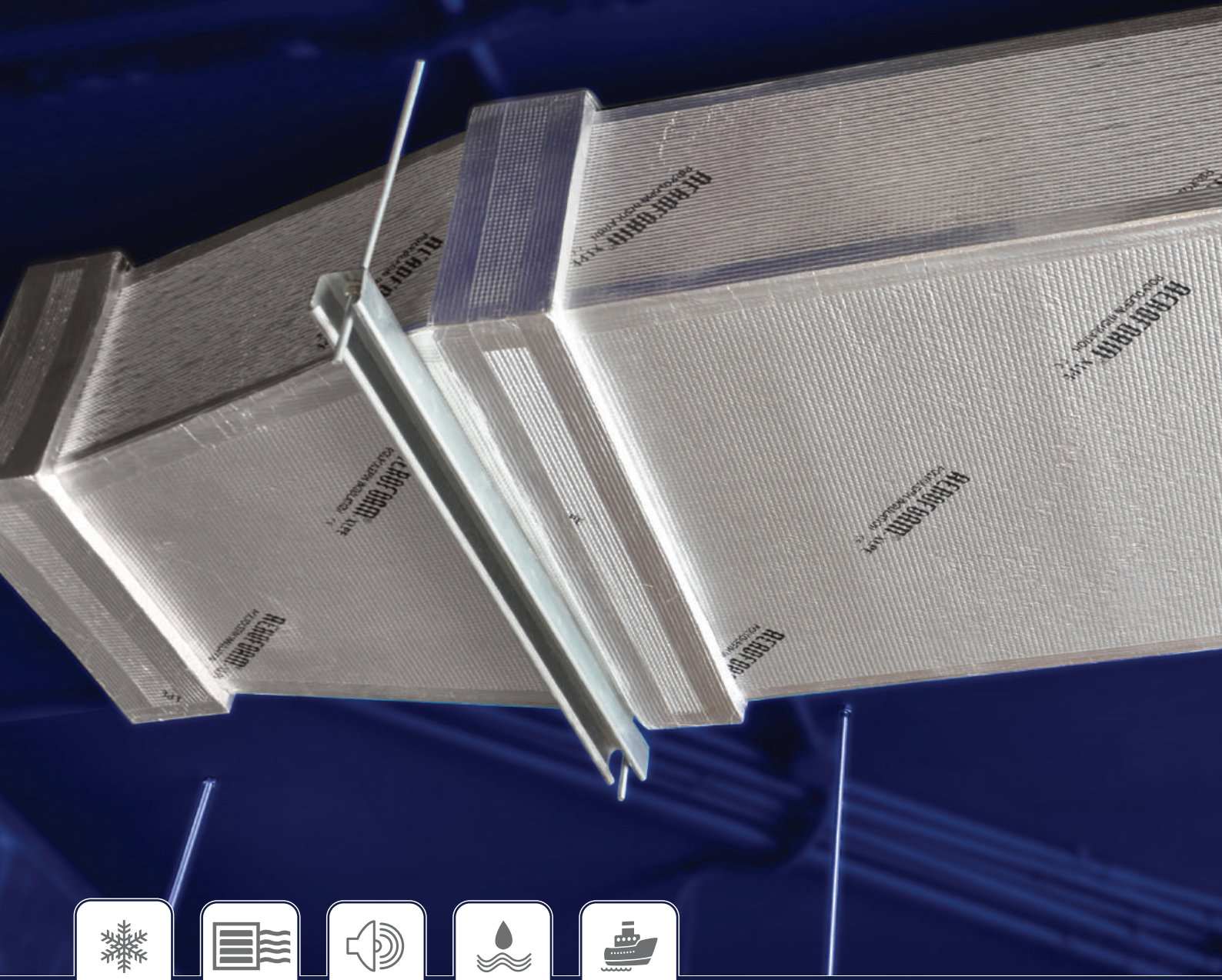


# AEROFOAM<sup>®</sup> -XLPE



*Polyolefin Thermal Insulation Foam  
Cross-Linked Closed Cell*

ASTM E84

**CLASS 0**

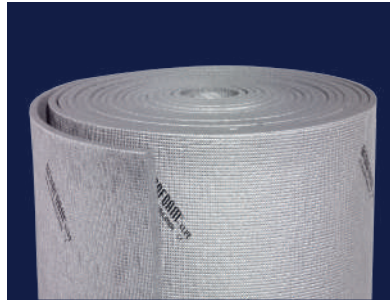
**UL**  
E361452



 [www.aerofoam.ae](http://www.aerofoam.ae)

## AEROFOAM® XLPE TUBES & ROLLS

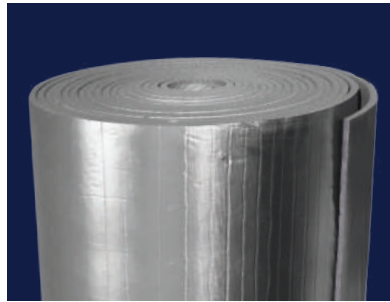
Aerofoam® XLPE rolls, sheets and tubular shapes are made of cross-linked closed cell polyolefin thermal insulation foam with factory applied aluminum foil for mechanical protection designed to control condensation and energy losses in cooling and heating systems.



They are especially designed for any type of building such as residential, accommodation, educational, retail, commercial, leisure, military and non-limited applications such as HVAC&R, VRF, chilled water pipes, air ducts, vessels and tanks, exposed-to-view systems, low and high temperature systems along with OEM.

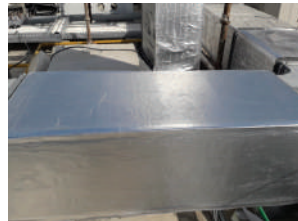
## AEROFOAM® N CLAD TUBES & ROLLS

Aerofoam® XLPE N Clad has been designed in sheets, rolls and tubular shapes especially for outdoor applications, additional protection such as aluminum or steel jacketing, paints, canvas cloths or similar products are not required. Aerofoam® XLPE N Clad is UV-resistant and weather resistant.



Contact our technical team or local representative for further information regarding additional mechanical protection for outdoor applications and underground pipes/ducts.

## APPLICATIONS

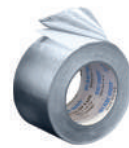


## AERO-FITTINGS

Pre-fabricated Aero-fittings are made in different shapes such as 90 and 45 degrees Elbows, Tees and Y-Branches.



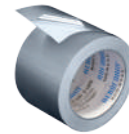
## AEROFOAM® TAPES



Aerofoam® Tape N Clad



Aerofoam® Tape XLPE Foam



Aerofoam® Tape Aluminum/Alupet

## AEROFOAM® XLPE GLUE



## AEROCALC

Calculation software is a tool for consultants, architects and engineers, available as **desktop**, **iphone** and **android** applications.

Get the desktop version from our website: [www.aerofoam.ae](http://www.aerofoam.ae)



Scan QR code to download desktop app



# AEROFOAM® XLPE TUBES

Insulation Tube Sizes		Thickness							
Inch	mm	10 mm	12 mm	15 mm	20 mm	25 mm	30 mm	40 mm	50 mm
1/4"	6	6x10	6x12	6x15	6x20	6x25	6x30	6x40	-
3/8"	9	9x10	9x12	9x15	9x20	9x25	9x30	9x40	-
1/2"	12	12x10	12x12	12x15	12x20	12x25	12x30	12x40	-
5/8"	16	16x10	16x12	16x15	16x20	16x25	16x30	16x40	-
3/4"	19	19x10	19x12	19x15	19x20	19x25	19x30	19x40	-
-	20	20x10	20x12	20x15	20x20	20x25	20x30	20x40	-
7/8"	22	22x10	22x12	22x15	22x20	22x25	22x30	22x40	-
1	25	25x10	25x12	25x15	25x20	25x25	25x30	25x40	-
1 1/8"	28	28x10	28x12	28x15	28x20	28x25	28x30	28x40	-
1 1/4"	32	32x10	32x12	32x15	32x20	32x25	32x30	32x40	32x50
1 3/8"	35	35x10	35x12	35x15	35x20	35x25	35x30	35x40	35x50
-	40	40x10	40x12	40x15	40x20	40x25	40x30	40x40	40x50
1 5/8"	43	43x10	43x12	43x15	43x20	43x25	43x30	43x40	43x50
2"	50	50x10	50x12	50x15	50x20	50x25	50x30	50x40	50x50
2 3/8"	60	60x10	60x12	60x15	60x20	60x25	60x30	60x40	60x50
3"	75	75x10	75x12	75x15	75x20	75x25	75x30	75x40	75x50
-	77	77x10	77x12	77x15	77x20	77x25	77x30	77x40	77x50
3 1/2"	90	90x10	90x12	90x15	90x20	90x25	90x30	90x40	90x50
4 1/4"	110	110x10	110x12	110x15	110x20	110x25	110x30	110x40	110x50
4 1/2"	115	115x10	115x12	115x15	115x20	115x25	115x30	115x40	115x50
5"	125	125x10	125x12	125x15	125x20	125x25	125x30	125x40	125x50
-	140	-	-	-	140x20	140x25	140x30	140x40	140x50
-	160	-	-	-	160x20	160x25	160x30	160x40	160x50
6"	166	-	-	-	166x20	166x25	166x30	166x40	166x50
8"	220	-	-	-	220x20	220x25	220x30	220x40	220x50
10"	273	-	-	-	273x20	273x25	273x30	273x40	273x50
12"	323	-	-	-	323x20	323x25	323x30	323x40	323x50
16"	406	-	-	-	406x20	406x25	406x30	406x40	406x50
18"	457	-	-	-	457x20	457x25	457x30	457x40	457x50

**Note:** Tubes size chart is also applicable for Aerofoam® XLPE N Clad.

## AEROFOAM® XLPE ROLLS & SHEETS

Thickness		Product Range				
Inch	mm	Size	Surface	Type	XLPE SA-AL	N CLAD SA
-	3	1.2mx20m	24m <sup>2</sup>	Roll	3 SA-AL	-
1/4"	5	1.2mx20m	24m <sup>2</sup>	Roll	5 SA-AL	-
3/8"	10	1.2mx20m	24m <sup>2</sup>	Roll	10 SA-AL	-
1/2"	12	1.2mx20m	24m <sup>2</sup>	Roll	12 SA-AL	12 SA
-	15	1.2mx20m	24m <sup>2</sup>	Roll	15 SA-AL	15 SA
3/4"	20	1.2mx20m	24m <sup>2</sup>	Roll	20 SA-AL	20 SA
1"	25	1.2mx2.4m	2.88m <sup>2</sup>	Sheet	25 SA-AL	25 SA
1 1/4"	30	1.2mx2.4m	2.88m <sup>2</sup>	Sheet	30 SA-AL	30 SA
	35	1.2mx2.4m	2.88m <sup>2</sup>	Sheet	35 SA-AL	35 SA
1 1/2"	40	1.2mx2.4m	2.88m <sup>2</sup>	Sheet	40 SA-AL	40 SA
2"	50	1.2mx2.4m	2.88m <sup>2</sup>	Sheet	50 SA-AL	50 SA
Length Tolerance: ±20mm				<b>ACCESSORIES</b>		
Thickness Tolerance	3-10mm= ±1mm			Aerofoam® Tape - XLPE Foam		roll
	10-30mm= ±1.5mm			Aerofoam® Tape - Aluminum/Alupet		roll
	30-50mm= -2mm +3.5mm			Aerofoam® Tape - N Clad		roll
				Aerofoam® XLPE Glue		2.5 litre

## Features

- Hygienic foam
- Long technical life
- Good fire resistance
- Low smoke emission
- Low water absorption
- Low and stable thermal conductivity
- Excellent water vapor transmission properties
- Environmental friendly products
- Energy loss control and stable thermal performance
- Ease of installation with less accessories and manpower compared to traditional systems

Different colors of aluminum foil and foam are available upon special request.

Other sizes are available upon request. Please contact our technical team or local representative for further information about technical features, special sizes and customized products.

# TECHNICAL DATA

**Description:** Flexible cross-linked closed cell thermal insulation foam with factory applied aluminum foil for mechanical protection, mainly designed to control condensation and energy losses.

**Material:** Cross-linked closed cell polyolefin foam with density of  $25 \pm 3 \text{ kg/m}^3$  (foam core only) and gray color.

**Self-adhesive coating:** Pressure sensitive adhesive coating.

**Applications:** Thermal insulation/protection for pipes, air ducts, vessels (incl. elbows, fittings, flanges, etc.) and process equipment to prevent condensation, save energy and block sound propagation.

Property	Value/ Assessment	Tested acc. to:
<b>Temperature range</b> Max. line temperature Min. line temperature <i>Please consult our technical team for applications with temperatures below -40 °C.</i>	105 °C -80 °C	DIN EN 14706 ASTM C411
<b>Thermal conductivity <math>\lambda</math>[W/(m•K)]</b>	0.035 W/m•K at 23 °C	ASTM C518
<b>Water vapor diffusion resistance factor (<math>\mu</math>)</b>	54,700	BS EN 12086
<b>Water vapor permeance [perms]</b>	$2.15 \times 10^{-10}$ (g/m <sup>2</sup> .s.Pa)	ASTM E96
<b>Water absorption [Kg/m<sup>2</sup>]</b>	0.05	BS EN 12087
<b>Reaction to fire</b>	Class 0 Class A *FM Certificate HF-1 Passed	BS 476 Parts 6&7 ASTM E84 FM Global UL 94 DIN EN 13501-01
<b>Smoke and toxicity</b> 1. Smoke toxicity levels 2. Toxic smoke	Passed Complied	IMO MSC 61(67); A.1,P.2 & P.5 BS 6853
<b>Formaldehyde content</b>	<0.0016ppm	EN 717-1
<b>UV resistance**</b>	Excellent	ASTM G155
<b>Resistance to corrosion (Salt fog test)</b>	Excellent	ASTM B117
<b>Compression set</b>	35.77% (for 25mm) 34.22% (for 32mm)	ASTM D3574
<b>Resistance to fungi</b>	Zero growth	ASTM G21
<b>Resistance to bacteria</b>	Zero growth	ISO 22196
<b>Chemical analysis (Leachable ions)</b>	Pass	ASTM C871
<b>Emission (VOC level)</b>	<4 $\mu$ g/m <sup>2</sup> /hr	ASTM D5116
<b>Environment friendly</b> Ozone resistance Ozone Depletion Potential (ODP) Global Warming Potential (GWP) CFC & HCFC, dust, fibres & asbestos	Excellent 0 <5 Free	

\* FM approved products available.

\*\* XLPE foam is generally resistant to UV-radiation. However, for all outdoor applications XLPE insulation must be covered with weather resistant Aerofoam® N Clad finishing.

Contact our technical team or local representative for further information about LEED projects and any other Green Building systems.

**Disclaimer:** This information on Hira Industries products is presented to the best of our knowledge. All product data is based on average values and is for guidance only. As these products are subject to constant research and development, we reserve the right to update the contents without notice.